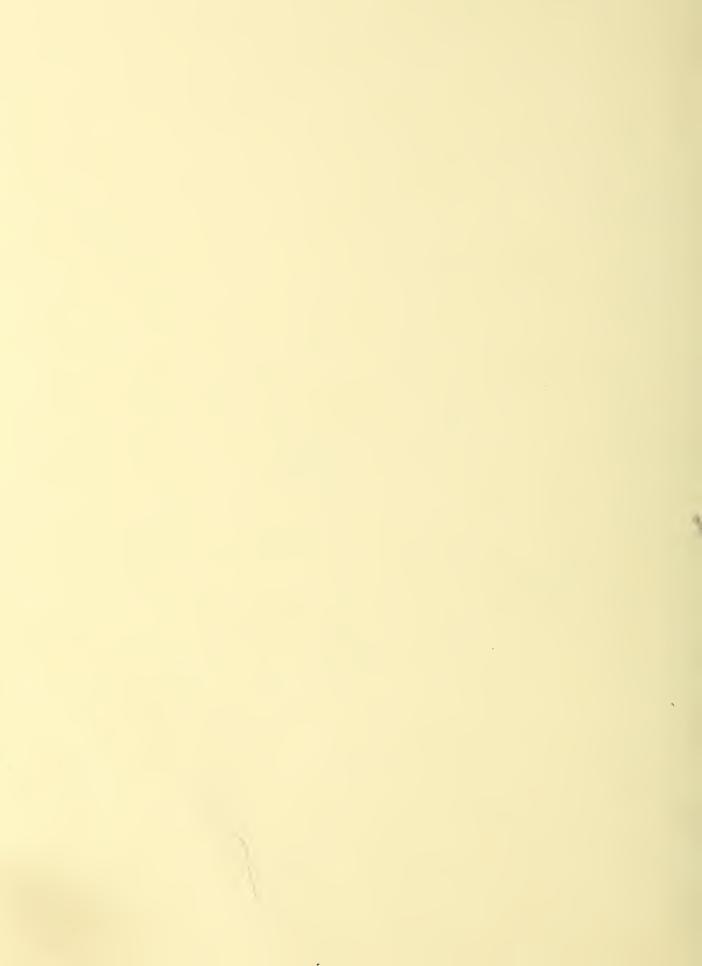
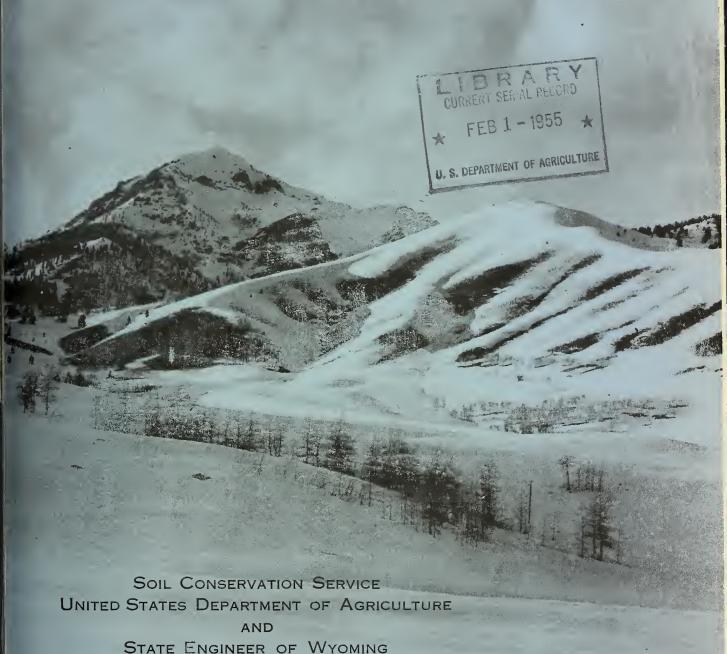
# **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



# Federal - State Cooperative Snow Surveys and Water Supply Forecasts for WYOMING



Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and local organizations.

-AS OF-

APR. 1, 1954

## UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS.

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrblogist in Charge River Forecast Center U. S. Weather Burcau 712 Federal Office Building Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate Rivef District Office, listed below:

Meteorologist in Charge.......Yellowstone River Weather Bureau Airport Station and tributaries Box 1338
Billings, Montana

State of Wyoming

#### FEDERAL-STATE COOPERATIVE

#### SNCW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued

April 8, 1954

Report Prepared by George W. Peak Snow Survey Leader

Soil Conservation Service and State of Wyoming

> 345 East 2nd Street P. O. Box 699 Casper, Wyoming

> > Issued by

B. H. Hopkins State Conservationist Soil Conservation Service

L. E. Bishop State Engineer of Wyoming Cheyenne, Wyoming



# PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

#### April 1, 1954

#### NORTH PLATTE BASIN

The snow cover on the North Platte drainage basin has increased considerably during March, bringing some areas up to, or above, normal. The Pole Mountain area, west of Cheyenne, is now at 73% of normal, relieving somewhat the extreme shortage expected a month ago. The North Platte basin above Saratoga and the Laramie River watershed show a substantial increase over March 1, although they still remain considerably below normal.

The Sweetwater River snow cover is at 131% of normal, however, due to soil conditions, a seasonal stream flow of about 122% is expected.

The snow cover in the North Laramie Mountains is ranging close to normal, with the soil storage apparently in good condition, indicating a close to average April to September runoff.

#### LOWER YELLOWSTONE BASIN

The snow pack in the Wind River and Big Horn River drainage has increased from normal on March 1 to about 120% of normal for April 1. Winter melt has relieved, to some extent, the extreme dryness of the soil, indicating a seasonal flow in this area of 110% of normal.

The Tongue River still remains at almost 150% of the normal snow pack, however, data from valley precipitation stations have reduced the expected flow to around 110% of normal.

The drainage from the Big Horns into the Powder River shows a substantial increase over that expected March 1--the snow pack, in this area, having increased to 125% of normal during March. The expected yield at Arvada is about 118% of the past 10-year normal.

The snow cover in the Black Hills is well above normal, indicating a runoff into the Belle Fourche and Upper Cheyenne Rivers of about average.

#### UPPER SNAKE RIVER

The Snake River watershed increased slightly to 117% of a normal snow pack. Ground moisture conditions are still somewhat below normal, indicating a seasonal runoff of 111% at Moran.

de Sign Light \* = 0 - 20 m Andrew Commence . و ۱۹ و دی

#### PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING (Contid.)

April 1, 1954

The Gros Ventre, Hoback, and Salt River Basins show a substantial increase to 112% of normal with an expected April-September runoff of nearly normal.

#### GREEN RIVER BASIN

The forecast of the 1954 seasonal flow of the Green River at Linwood is about 76% of normal. Although the outlook improved substantially to 116% during March, reports from valley precipitation stations have reduced the expected runoff considerably.

\* \* \* \*

Generally speaking, winter valley precipitation throughout the state has been low and in rather sharp contrast to the mountain precipitation, as indicated by the snow surveys. This factor, plus the dryness of the soil as it entered the winter, has reduced, to some degree, the snow melt runoff at all Wyoming stream flow forecasting stations.

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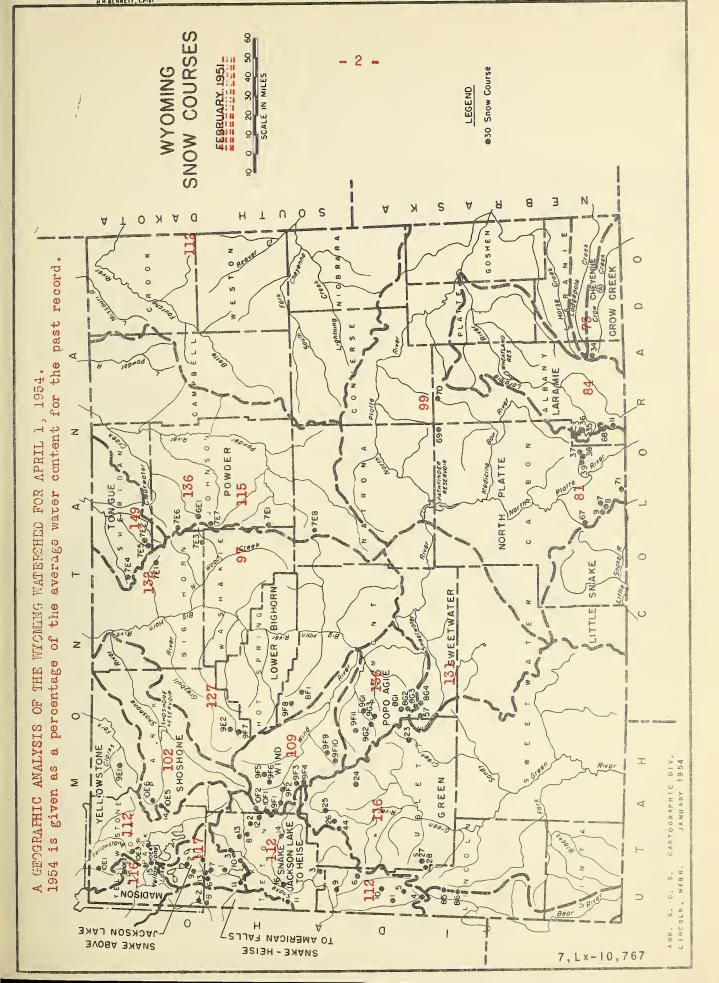
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#### WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS

April 1, 1954

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BASIN AND TRIBUTARY	FORE			d Runoff ;	1942 to
	April	% of	April -	September	1951
	September	Average	1952	: 1951 :	Average
UPPER YELLOWSTONE IN YELLOWSTONE P	ARK				
MARTON PTIER					
MADISON RIVER	006	260	01.0	0.21.	208
West Yellowstone (near) YELLOWSTONE RIVER	200	96%	248	234	200
Corwin Springs (at)	1900	97%	2171	2254	1957
CLARK FORK RIVER	1900	7110	for what of solar	~ C ) ( )	エクノイ
Chance (at)	512	83%	576	731	617
Office (ac)	746	۵٫۷۵	210	()	011
SNAKE RIVER BASIN					
Committee Challes of the confidence of the Committee Com					
SMAXE RIVER					
Moran (below)	970	111%	980	834	874
Heise, Idaho (near)	4000	98%	GEED COUR	4960	4062
LOWER YELLOWSTONE BASIN					
WIND RIVER		1 - 4	~ -41	2	
Riverton (at)	690	124%	354	676	556
BIGHORN RIVER			e m l		m al (
Thermopolis (at)	1150	110%	374	1207	1046
Kane (at)	1580	106%	767	1514	1490
St. Xavier (near)	2320	102%	1286	2365	2269
BULL LAKE CREEK	180	800	071.	סזר	202
Bull Lake (above)	170	89% 117%	214	215	145
Lenor (near) POPO AGIE RIVER	710	TT 1/0	65 ms	400 000	149
Riverton (near)	457	119%	450	377	383
NORTH FORK POPO AGIE	4+21	elicato / /U	·420	211	505
Lander (near)	814	109%	. 92	87	77
LITTLE POPO AGIE			, , , –	•	
Hudson (at)	78	137%	81	61	57
GREYBULL RIVÉR	·				
Meeteetse (at)	244	103%	278	2H8	237
Basin (near)	116	103%	173	110	113
SHOSHONE RIVER					
Buffalo Bill Dam (below)	861	107%	697	984	806
Byron (at)	624	100%	486	834	627
TONGUE RIVER		m e 1 m	er al	3.00	* * *
Dayton (near)	122	104%	104	108	117
Acme (near)	296	108%	239	206	274
Decker, Montana (near)	305	109%	249	gang fictor	281

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#### WYOMING DRAINAGE BASINS STREAMFLOW FORECASTS (Continued)

April 1, 1954

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BASIN AND TRIBUTARY	FORE		Measured		1942 to
DASIN AND INIBUIANI		% of	April -	September	1951 :
	September	Average'	1952	: 1951	: Average
				,	
POVIDER RIVER	4.4			4	<b>.</b> -
Arvada (at)	168	118%	125	59	1715
Moorhead, Montana (at)	293	104%	235	gallerin	283
Locate, Montana (at)	353	100%	303	car den	353
MIDDLE FORK POWDER	•				
Kaycee (near)	75	104%	36	30	72
NORTH FORK POWDER					
Mayoworth (near)	19	100%	17	12	19
CLEAR CREEK					
Buffalo (near)	36	92%	35	26	39
Arvada (near)	109	87%	100	53	126
NORTH PLATTE BASIN					
SWEETWATER RIVER	7.07	\$ 0.00		m).	92
Alcova (at) NORTH PLATTE RIVER	101	122%	40 (5)	74	83
Saratoga (at)	450	67%	1053	710	673
MEDICINE BOW	450	01/6	エロラン	110	013
Hanna (near)	75	65%	en an	91	115
LARAMTE	17	مرری		74	الرسلسان
Jelm (at)	88	89%	124	131	99
Lookout (at)	70	77%	**************************************	117	91
Hookogo (do)	10	1 1 /0		and (	/1
UPPER COLORADO BASIN					
GREEN RIVER					
Linwood (at)	1100	76%		1879	1440
Turimoda (ac)	7100	10%	~~	7013	THHO

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### STATUS OF RESERVOIR STORAGE Wyoming and South Dakota April 1, 1954

BASIN		USEABLE	A 23 f	TTTE COL	DDACT:	1000- 4	CRE FEET
and		CAPACITY	A.U.I	TAF 210	JRAGE -	TUUUS A	10-Yr.Avg.
STREAM	RESERVOIR	1000s AF	1954	1953	1952	1951	1942-51**
Snake River	Jackson	847.0	401.4	440.1	532.4	459.6	507.8
North Platte North Platte	Seminoe* Pathfinder*	1012.0	235.7 871.2	565.3 872.4	536.0 942.0	524.9 939.3	362.5 520.4
North Platte North Platte	Alcova* Guernsey	190.5 39.8	187.3	155.7 35.6	159.0 39.9	169.7 44.8	89.6 42.6
North Platte North Platte	Southerland Kingsley	185.0 19 <b>9</b> 5.0	49.0 1571.0	52.0 1796.0	58.0 1799.0	56.5 1820.0	46.5 1234.2
North Platte	Lake Alice & Minatare	68,0	39.8	24.8	28,5	26.0	€ 49
Kansas Basin Kansas Basin	Box Butte Bonny	31.6 39.9	18.2	22.4 28.9	30.0 33.4	22.7 4.9	23.4
Kansas Basin Kansas Basin Kansas Basin	Swanson Lake Enders Harry Strunk	116.1 36.0 33.9	22.5 33.8 29.2	25.7 32.6	30.3 33.9	9.2 36.7	€000 €000
Kansas Basin Kansas Basin	Harlan County Cedar Bluff	252.9 176.8	57.2 100.8	113.8	141.5	1.0	(3) (8) (8) (9)
Iaramie River	Wheatland	95.0	12.0	26.1	53.9	39.4	36.2
Belle Fourche	Belle Fourche	185.2	120.4	65.6	117.8	94.3	134.3
Shoshone River	Buffalo Bill	439.8	147.8	154.8	202.3	269.1	280.9
Wind River Wind River Wind River	Boysen Pilot Butte Bull Lake	758.0 31.6 152.0	382.1 17.7 69.3	495.0 23.5 56.0	152.4 13.6 61.2	13.8 79.5	16.9 59.9
Cheyenne River Cheyenne River Cheyenne River Grand River	Angostura Deerfield Keyhole Shadehill	92.0 15.1 190.3 84.0	32.7 15.1 8.6 82.6	50.6 13.9 13.8 84.2	41.0 15.1 1.3	14.1	13.4 ha 450
Green River	Big Sandy	38.3	5.4	<b>20 49</b>	E20 040	pay eas	<b>২০৮ ব্</b> লা

<sup>\*</sup> Total Capacity and Total Storage \*\* Some for Less

\* \* \* \* \* VALLEY PRECIPITATION In Percent of Normal

	111 10100	20 02 10	J 2 111C4 22	
Basin	SeptDec.	Jan.	Febr.	Mar.
Wind River	58	88	49	202
Shoshone River	88	241	112	205
Big Horn River	72	51	48	169
Powder River	62	102	79	175
North Platte	57	63	50	193
Laramie River	35	715	40	136

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COMPARISON OF SNOV	- 6  I COVER WIT		PREVIOUS YEAR	RS	
Summary of Snow Survey	Data by Wa : NO. OF :	the same of the sa	and the second s	, 1954 W WATER EX	OFFSSTO
BASIN	: NO. OF :	OF	,	PERCENTAGE	
	:AVERAGED:	RECORD	: 1953	: 1952 :	Average
Snake River Basin Above Jackson	Lake 11	7-35	114	96	117
Jackson Lake To Heise	20	5-18	125	95	112
Upper Yellowstone In Yellowstone	e Park 7	7-19	125	85	112
Madison River In Yellowstone Par	rk 2	15-17	122	77	116
Lower Yellowstone - Clark Fork	1	16	92	118	115
Lower Yellowstone - Shoshone Riv	ver 2	5-16	127	92	102
Lower Yellowstone - Wind River	14	4-18	125	106	109
Lower Yellowstone - Popo Agie Ri	iver 6	5-17	168	89	136
Lower Yellowstone - Owl Creek	2	5	960 (00)	1 etc cap	<b>120 43</b> 0
Lower Yellowstone - Greybull Riv	ver 2	5-14	178	150	127
Lower Yellowstone - Tongue River	· 3	3-18	145	151	149
Lower Yellowstone - Shell Creek	2	3-16	132	116	132
Lower Yellowstone - Nowood Creek	c It	3-17	108	76	97
Lower Yellowstone - Clear Creek	On The Pow	der River	196	118	136
Lower Yellowstone - Crazy Women	Creek On T	he Powder 3-17	River 138	94	115
North Platte Above Seminoe Reser	rvoir 14	4-18	105	58	81
North Platte - Sweetwater River	4	4-17	167	93	131
Laramie River Basin	10	4-18	98	59	84
Pole Mountain	1	18	231	33	73
North Laramie Mountains	2	L	78	77	99
Missouri - Cheyenne River	1	10	94	79	112
Upper Colorado - Green River	13	3-18	132	102	116

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WYOMING SNOW SURVEYS, APRIL 1, 1954

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			-		OW COVER	MEASU			
DDATMACD DAGTH				195			Past	Record	7.7
DRAINAGE BASIN			Date	Snow	Water	T 70 de a an	0	± (T. )	Year
and SNOW COURSE	State	TTorr	of Survey		Content (In.)	1953	1952	Aver**	of
SNOW GOODSE	State	blev.	Survey	(TII.)	(111.)	1770	1952	HAGTAN	recor.
SNAKE RIVER BASIN ABOV	TE JACKS	N LAKE							
Arizona	Wyo.	6850	3/30	65	20.9	19.8	24.3	17.8	35
Astor Creek	Wyo.	7700	4/1	112	38.0	33.0	41.3	31.4	35
Base Camp*	Wyo.	6900	3/31	68	22.8	18.4	21.3	19.2	7
Coulter Creek	Wyo.	7600	4/2	83	28.5	23.9	26.3	22.4	35
Glade Creek	Wyo.	7200	4/1	<b>7</b> 5	24.8	22.4	28.2	23.0	35
Huckleberry Divide	Wyo.	7300	3/30	69	21.0	20,0	24.8	19.6	35
Lewis Lake Divide	Wyo.	7900	4/1	143	52.3	45.1	52.8	42.5	35
Moran	Wyo.	6800	3/30	46	14.5	12.7	14.4	11.7	35
Moran Bay .	Wyo.	6800	3/30	72	23.1	24.2	24.1	21.2	35 35
Snake River Station	Wyo.	<b>67</b> 80	3/30	77	24.1	21.1	24.7	20.0	35
Thumb Divide	Wyo.	7900	4/1	84	28.0	21.1	29.6	25.1	7
JACKSON LAKE TO HEISE									
Afton Ranger Station	Wyo.	6200	3/30	14	3.4	0.0	6.9	2.0	18
Base Camp	Wyo.	6900	3/31	68	22.8	18.4	21.3	19.2	7
Blackrock	Wyo.	8600	3/31	76	24.4	20.2	24.7	22.2	18
Blind Bull Summit	Wyo.	8750	4/4	107	41.7	30.2	36.3	33.1	6
Bryan Flat	Wyo.	6250	3/31	44	14.5	12.5	16.3	10.8	18
GGC Camp	Wyo.	7500	3/30	46	12.9	10.9	16.0	11.9	18
Cottonwood Lake	Wyo.	7500	2,20		Report-	16.1	19.5	17.5	18
Deadman Ranch	Wyo.	6534	4/4	40	13.9	10.1	13.3	10.6	17
East Rim Divide	Wyo.	7950	3/31	47	13.4	10.4	15.3	12.0	18
Four Mile Meadows	Wyo.	7770	3/31	52	14.6	12.5	15.9	13.3	18
Greys Boundary	Wyo.	5800	4/1	40	11.9	9.3	16.9	11.3	18
Gros Ventre Summit	Wyo.	8750	4/2	47	13.9	10.6	12.1	13.4	6
Grover Park Divide	Wyo.	7500	3/31	46	13.4	10.6	15.9	11.5	18
Poison Meadows	Wyo.	8500	3/31	103	33.5	25,0	31.0	30.0	6
Salt River Summit	Wyo.	7900	3/30	58	16.3	13.0	19.5	17.1	6
Snow King Mountain	Wyo.	7600	3/29	51	14.3	10.8	14.8	13.3	5 9
Teton Pass No. 2	Wyo.	8500	3/30	111	37.4	36.9	45.9	39.4	9
Togwotee Pass	Wyo.	9600	3/31	103	34.7	27.3	32.2	28.8	18
Turpin Meadows	Wyo.	6930	3/31	45	12.6	11.1	13.5	10.7	18
Yellow Jacket	Wyo.	7675	3/27	31	7.9	3.2	7.1	6.6	17

<sup>\*</sup> Adjacent Basin

<sup>\*\*\*</sup> Provisional Average for Snake River Stations

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WYOMING SNOW SURVEYS, APRIL 1, 1954

					OW COVER	MEASU			
DRAINAGE BASIN			Date	1950 Snow	Water		Past	Record	Years
and			of		Content	Water	Conten	t (In.)	
SNOW COURSE	State	Elev.	Survey			1953	1952		Record
UPPER YELLOWSTONE	IN YELLOWSTO	NE PAR	(						
			•						
Canyon	Wyo.	7750	4/1	49	17.8	14.3	21.4	16.8	8
Cooke City Crevice Mountain	Mont. Mont.	7400 8400	3/28 4/1	37 39	10.9	8.8 9.2	11.9 14.6	7.9 10.0	17 19
Lake Camp	Wyo.	7850	3/30	46	12.4	9.5	14.2	10.8	16
Lupine Creek	Wyo.	7300	3/30	46	13.1	9.3	16.4	10.2	15
Sylvan Pass	Wyo.	7100	4/1	54	15.0	13.5	17.2	14.5	16
Thumb Divide	Wyo.	7900	4/1	84	28.0	21.1	29,6	25.1	7
MADISON RIVER IN Y	ELLOWSTONE PA	ARK							
Norris Basin	Livro	7500	3/30	27	11.6		12.7	9.4	15
West Yellowstone	Wyo. Mont.	6700	3/27	37 34	10.7	10.9	18.9	11.6	17
		.,	-, -,		,	,		•	
TOTAL MAIN TOTAL	arroarrow p	rii ma							
LOWER YELLOWSTONE	- SHOSHONE R	IVER							
East Entrance	Wyo.	7000	4/1	49	13.4	8.9	13.8	13.3	5
Sylvan Pass	Wyo.	7100	4/1	54	15.0	13.5	17.2	14.5	16
LOWER YELLOWSTONE	- WIND RIVER								
Control Contro		_		61				-1 -	- 0
Brooks Lake	Wyo.	9200	3/26	84	28.5	28.1 14.8	30.2	24.9	18
Burroughs Creek Dinwoody	Wyo.	8800	3/27 3/25	58 52	16.5 13.9	12.7	12.6 14.5	17.6 15.8	5 4
Dry Creek	Wyo.	9500	3/25	33	7.6		7.4		4
DuNoir	Wyo.	8750	3/26	38	9.9	8.2	7.6	10.1	13
Geyser Creek	Wyo.	8500	3/27	38	9.9	7.5	9.5	10.2	5559
Hobbs Park	Wyo.	10000 9500	3/30 3/27	<b>75</b>	23.7	14.2 18.7	23.0	21.7	Ş
Little Warm Mosquito R.S.	Wyo. Wyo.	9500	3/30	70 45	20.1 12.3	6.8	19.2 12.2	9.4	9
St. Lawrence R.S.	Wyo.	9000	3/29	34	9.0	5.9	10.5	8.0	ıó
Sheridan R.S.	Wyo.	7500	3/26	40	11.4	8.7	7.4	7.3	18
T Cross Ranch	Wyo.	8000	3/28	38	9.5	7.0	7.9	7.4	13
Togwotee Pass Trout Creek	Wyo.	9600 8400	3/31	103 40	34.7 10.3	27.3	32.2 10.0	28.8 7.1	18 5
TIOUU OTEEK	Wyo.	0400	3/30	40	TO*2	( •4	10.0	( • T	)

<sup>\*</sup> Adjacent Basin

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WYOMING SNOW SURVEYS, APRIL 1, 1954

					OW COVER	MEASU		D	
DRAINAGE BASIN			Date	1951 Snow	Water		Past	Record	Years
and			of		Content	Water	Conten	t (In.	
SNOW COURSE	State	Elev.	Survey		(In.)	1953	1952		Record
LOWER YELLOWSTONE	- POPO AGIE	RIVER							
Blue Ridge	Wyo.	9500	3/31	59	17.4	10.1	24.8	12.3	14
Grannier Meadows*	Wyo.	9000	3/31	70	20.8	12.1	22.9	12.9	17
Hobbs Park	Wyo.	10000	3/30	75	23.7	14.2	23.0	21.7	5
Mosquito R. S.	Wyo.	9500	3/30	45	12.3	6.8	12.2	9.4	5 9
Sawmill Glade	Wyo.	8500	3/31	41	11.0	8.1	14.3	8.1	14
South Pass	Wyo.	9000	3/31	71	21.8	12.3	23.1	14.4	14
TOTAL SEPTEMBER	OUT COUNT								
LOWER YELLOWSTONE	- OWL CREEK								
Beavers Mill	Wyo.	8900		-No	Report	6.3	6.9	7.8	5
Owl Creek	Wyo.	8700			Report	4.7	6.7	6.3	5 5
701 FD 150 7 701 10 501 FD	appunite p								
LOWER YELLOWSTONE	- GREYBULL R	IVER							
Timber Creek	Wyo.	8800	4/3	26	6.9	4.3	5.5	5.8	5
Wood River	Wyo.	8000	4/2	29	7.3	3.7	4.0	5.4	5 14
	· ·		.,	·	,				
LOWER YELLOWS TONE	- TONGUE RIV	ER							
Big Goose	Wyo.	7700	3/29	24 .	5.5	4.3	5.0	4.3	18
Burgess R. S.	Wyo.	7900	3/29	58		13.6	12.4	13.4	4
Dome Lake	Wyo.	8800	3/29	44	11.0	7.2 N	Io Report	6.8	3
TOTAL MATERIAL	CIEII CDED	T.F.							
LOWER YELLOWSTONE	- SHELL CREE	<u>r.</u>							
Dome Lake*	Wyo.	8800	3/29	44	11.0	7.2	<b>CORP.</b> CORP.	6.8	3
Ranger Creek	Wyo.	8800	3/31	38	8.8	7.8	10.3	8.2	16
LOWER YELLOWSTONE	- NOWOOD CRE	EK							
Muddy Pass	Wyo.	9700	3/31	41	9.4	8.0	9.9	8.6	4
Ranger Creek*	Wyo.	8800	3/31	38	8.8	7.8	10.3	8.2	16
North Powder	Wyo.	8500	3/30	33	7.0	5.8	10.3	7.6	16 3 1 <b>7</b>
Ten Sleep	Wyo.	8300	3/31	30	5.5	6.9	10.0	7.1	17

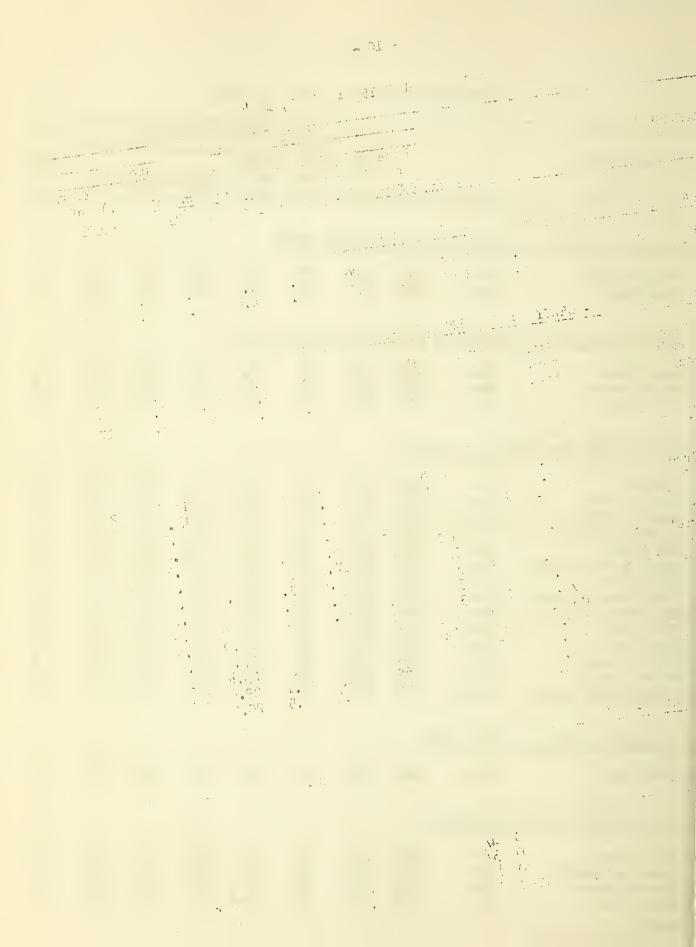
<sup>\*</sup> Adjacent Basin

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WYOMING SNOW SURVEYS, APRIL 1, 1954

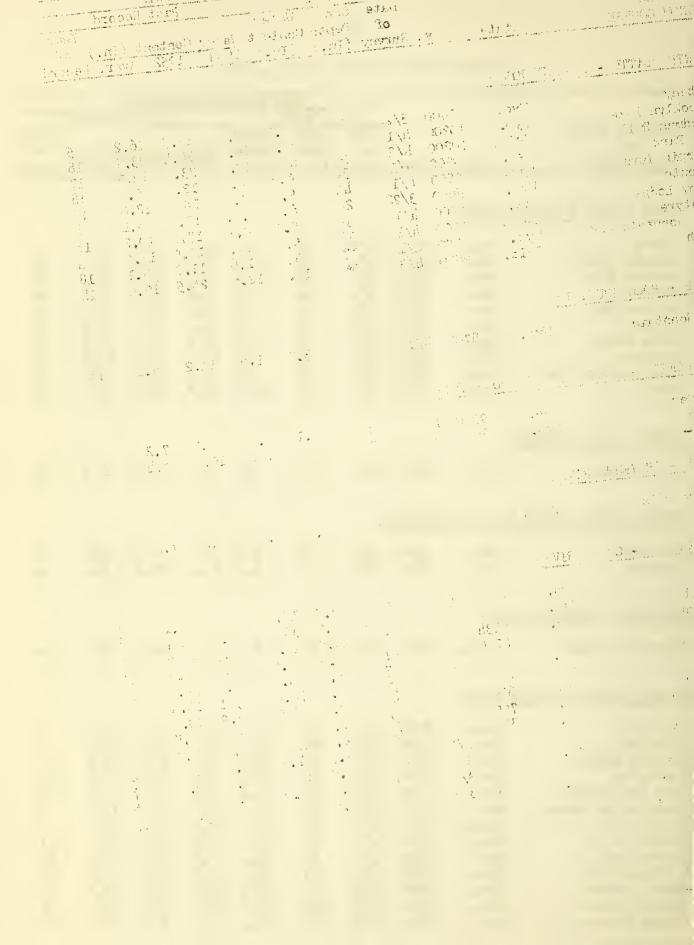
		phone with phone phone process (a)			VI GOVERN	NT 40-	10 to		
			SNOW COVER MEASUREMENTS 1954 Past Record						
DRAINAGE BASIN			Date	Snow	Water		rasu	necora	Years
and			of		Content	Water	Conten	t (In.	
SNOW COURSE	State	Elev.	Survey	(In.)	(In.)	1953	1952	Aver.	Record
LOWER YELLOWSTONE - C	LEAR CRE	EK ON TH	E POMD	ER RIVE	ER				
Caldan Damla	I T	9700	2/20	26	۳ ع	0.6	۲ ء	۱. ۳	1.
Soldier Park Sour Dough	Wyo. Wyo.	8700 8500	3/29 3/31	26 39	5.1 9.0	2,6 4.6	5.1 6.8	4.5 5.9	4 17
Dodi Dodgii	Wy 0 8	0,00	J1 J=	27	760	4.0	0,0	201	
LOWER YELLOWSTONE - C	PAZY MOM	N CREEK	. Ои тні	E POWNE	ER RIVER				
TOWER TEMPOROTOME - C	TIME TOTAL	M OIGH	ON TH	3 1 0001011	JIC ICT A 171C				
Muddy Pass	Wyo.	9700	3/31	41	9.4	8.0	9.9	8.6	4 3
North Powder	Wyo.	8500	3/30	33	7.0	5.8	10.3	7.6	_3
Sour Dough	Wyo.	8500	3/31	39	9.0	4.6	6.8	5.9	17
NORTH PLATTE ABOVE SE	MINOE RES	BERVOIR							
Albany*	Wyo.	9400	3/28	43	9.7	12.4	18.3	16.2	5
Bottle Creek	Wyo.	8200	3/29	58	13.9	13.3	23.2	14.8	18
Cameron Pass	Colo.	10300	4/1	63	22.0	18.8	28.8	21.6	18
Columbine Lodge	Colo.	9300	3/31	63	15.0	23.9	33.4	23.6	18
Fox Park* North Barrett Creek	Wyo.	9200 9400	4/1 3/30	30 70	6.3	4.6	12.0 27.0	9.1 20.0	18 18
North Gate	Wyo. Colo.	8500	3/31	70 23	17.7 5.9	3.8	9.6	6,2	4
North French Creek	Wyo.	10200	3/30	99	27.0	23.6	37.4	30.2	16
Old Battle	Wyo.	9800	3/29	97	25.9	26.0	47.8	32.6	18
Park View	Colo.	9200	3/31	33	7.1	5.8	16.9	10.4	18
Ryan Park	Wyo.	8400	3/30	44	10.2	6.4	17.8	11.2	18
Spring Creek Webber Spring	Wyo. Wyo.	9000 9000	4/1 3/29	54 69	13.6 15.5	13.6 16.1	25.4 29.8	20.0 19.8	5 <b>1</b> 8
Willow Creek Pass*	Colo.	9500	3/31	48	11.7	10.5	20.5	13.5	16
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J, J-	-4	,				
LOWER YELLOWSTONE - C	LARK'S FO	)RK							
Lodge Pole	Wyo.	8200	3/31	43	12.7	10.1	13.0	11.0	16
NORTH PLATTE - SWEETW	ATER RIVI	ER							
D 1-1 T	7.7	0=00	1 /-	1 =	77.0	0 0	7.7 0	0 1	7 ~
Dutch Joe* Grannier Meadows	Wyo.	8700		41		8.0	11.0		15 17
Iarson Creek	Wyo. Wyo.		3/31 4/1	70 40		12.1	12.8		17 4
South Pass	Wyo.		3/31	71		12.3			14
	,	,,	-, -	• -					
* Adjacent Basin									

<sup>\*</sup> Adjacent Basin



WYOMING SNOW SURVEYS, APRIL 1, 1954

					AT COME	BATO A CIVID	DEMANDAGE				
				195		R MEASUREMENTS Past Record					
DRAINAGE BASIN			Date	Snow	Water	ni ani - <del>India</del> ntan -	1430	ICCOI G	Years		
and			of		Content		Conten	t (In.			
SNOW COURSE	State	Elev.	Survey	(In.)	(In.)	1953	1952	Aver.	Record		
NORTH PLATTE - LARAMIE	ERIVER										
Albany	Wyo.	9400	3/28	43	9.7	12.4	18.3	16.2	5		
Brooklyn Lake	Wyo.	10200	4/1	84	22.6	24.7	34.4	23.1	18		
Deadman Hill	Colo.	10200	4/2	55	14.2	10.7	23.3	14.9	17		
Fox Park	Wyo.	9200	4/1	30	6.3	4.6	12.0	9.1	18		
Hairpin Turn	Wyo.	9500	4/1	44	9.6	11.8	18.0	12.0	18		
LaBonte Libby Lodge	Wyo.	8450 8700	3/28 4/1	24 42	6.4 9.1	N.R. 10.2	10.4	8.4 10.2	18		
McIntyre	Colo.	9100	4/1	38	9.2	N.R.	15.9	13.2	4		
Pole Mountain #2*	Wyo.	8700	4/1	17	3.7	1.6	11.2	5.1	18		
Roach	Colo.	9800	4/3	66	19.3	12.6	26.5	19.0	14		
PLATTE - POLE MOUNTAIN	<u> </u>										
Pole Mountain	Wyo.	8700	4/1	17	3.7	1.6	11.2	5.1	18		
1020 110 021 03211	,	0,00			201			7			
NORTH PLATTE - NORTH I	LARAMIE MO	OUNTAIN	<u>s</u>								
Deep F2 Acce	1.1	0000	1. /1.	20	0.3	0 0	0.7	m 0	1.		
Box Elder LaBonte	Wyo.	9000 8450	4/4 3/28	30 24	9.1 6.4	9.2 N.R.	9.7 10.4	7.2 8.4	4 4		
Labouve	11 y O •	0470	2/ 20	64	0.4	14 0 100	1004	0.4	4		
MISSOURI - CHEYENNE RI	VER		s								
Upper Spearfish	S.Dak.	6500	3/29	27	8.1	8.6	10.2	7.2	10		
oppor opportion	Dibani	0,00	J/ L/	-1	0 9 4	Ogo	400	,	10		
UPPER COLORADO - GREEN	RIVER										
Dá a Domis	T.Toma	9700	3/31	יי פי	22.7	18.0	27.2	24.1	2		
Big Park Blind Bull	Wyo.	8700 8750	4/4	77 107	23.7	30.2	36.3	33.1	3 6		
Deadman Ranch*	Wyo.	6534	4/4	37	13.9	10.1	13.3	10.6	17		
Dutch Joe	Wyo.	8700	4/1	41	11.9	8.0	11.0	8.4	15		
East Rim Divide	Wyo.	7950	3/31	47	13.4	10.4	15.3	12.0	18		
Gros Ventre Summit	Wyo.	8750	4/2	47	13.9	10.6	12.1	13.4	6		
Kelly R. S.	Wyo.	8200	3/31	70	20.4	15.9	22.9	20.4	3		
Kendall R. S.	Wyo.	7900	4/2	38	11.4	10.1	12.0	11.5	17		
Loomis Park Mulligan Park	Wyo.	8500	4/2 4/5	72 43	22.0	17.9	20.1	17.3	18 18		
Piney LaBarge	Wyo. Wyo.	8900 8820	3/31	43 71	12.3 22.9	11.9 15.0	24.7	11.0	17		
Poison Meadows	Wyo.	8500	3/31	103	33.5	25.0	31.0	30.0	6		
Snyder Basin R. S.	Wyo.	8040	3/31	58	18.4	13.4	17.9	13.7	17		
* Adjacent Basin	,										
Adjacent Basin											



#### INDEX TO WYOMING SNOW COURSES

INDEX TO WIGHTING SHOW COURSES  Location																	
	Wyoming		Sec.		Range		Measuring	Measured	Neme	Wyoming	F7	Sec.	Twp.	Range	Record	Measuring Dates <sup>8</sup>	Measured By
Name	Number	Elev.	Lat.	Lor		Began	Datesa	Byb	Name	Number	Elev.	Lat.		ong. Continue	Began	Dates	БУ
YELLOWSTONE		MISSOUR	I RIVER	DRAIN	IAGE				LARAMIE RIVER	FII 3300	ALL ALVE	A DIMIN	auni	COLLEGIO	ια,		
Canyon Lake Camp Lodgepole Lupine Creek	10E3 10E4 9E1 10E1	7750 7850 8200 <b>73</b> 00	հե°հեւ հե°3և։ 32 հե°5և։	56N	10°30' 10°2կ' 106W 10°37'	1938 1937 1940 1938	1,2,3,4,5 1,2,3,4,5 4,5 1,2,3,4,5	ր ր 1	Brooklyn Lake Fox Park Libby Lodge #2 Hairpin Turn #2	3 11 35 36	10200 9200 8700 9500	11 21 29 24	16N 13N 16N 16N	79W 78W 78W 79W	1936 1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1 1 1
WIND RIVER									CROW CREEK								
Brooks Lake #3 Burroughs Creek Dinwoodie Dry Creek	10F2 9F6 9F10 9F9	9200 8800 10000 9500	23 15 9 34	73N 73N 77N 77N	110W 107W 105W 105W	1939 1948 1948 1948	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	ր ր ր	Pole Mountain #2	3կ	8700 COLORAI	35 O RIVER	15N DRAI	72W INAGE	1936	2,3,4,5	1
DuNoir Geyser Creek	9F2 9F3	8750 8500	27	11N	108W 108W	1940 1948	2,3,4,5 2,3,4,5	li li	OREEN RIVER								
Little Warm Sheridan R.S. T-Cross Ranch Togwotes Pass POPO AGUE RIVER	9F4 9F1 9F5 10F1	9500 7500 8000 9600	2h 3 1 29	77N 73N 75N 75N	108W 109W 107W 110W	1948 1939 1940 1936	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4	1 1 4 5	Dutch Joe Ranger Sta. Mulligan Park Kendall Ranger Station Loomie Park Snyder Basin Ranger Sta Piney-LaBarge	28	8700 8900 7900 8500 8040 8820	32 17 23 14 15	37N 35N 38N 37N 29N 29N	10hw 10sw 11tw 11hw 11hw	1936 1936 1936 1936 1937 1937	և,5 3,և,5 3,և,5 4,5 և,5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Blue Ridge	8G2	9500	23	31N	101W	1939	2,3,4,5	1	East Rim Divide	1,14	7950	32	37N	111W	1936	3,4	1
Hobbs Park R.S. Sawmill Glade South Pass St. Lawrence R.S. Trout Creek	9G2 9G3 8G1 8G3 9F11 9G1	10000 9500 8500 9000 9000 8h00	22 23 3 13 26 5	2S 2S 31N 30N 1N 2S	3W 3W 101W 101W hw 2W	1948 1940 1939 1939 1940 1948	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	և 1 1 1 և	SNAKE RIVER BASIN Above Jackson Lake	1	6850	A RIVER	цби	113W	1919	2,3,4,5	.53
BIG HORN RIVER									Aster Creek Base Camp	3	7700 69 <b>0</b> 0	地位17	Len	110°37'	1919 1947	2,3,4,5	5555
Beavers Mill Owl Creek Tensleep R.S. Timber Creek Ranger Creek Wood River	9F8 8F1 7E3 9E2 .7E1 9F7	8900 8700 8300 8800 8800 8000	6 36 30 25 32 28	13N 13N 19N 17N 53N 16N	102W 101W 86W 103W 88W 103W	1948 1948 1935 1948 1935 1939	2,3,4,5 2,3,4,5 4,5 4,5 4,5 2,3,4,5	հ հ 1 1	Coulter Creek Clade Creek Huckleberry Divide Lewis Lake Divide Moran Moran Bay Snake River Station	5 6 7 9 10 11 13	7600 7200 7300 7900 6800 6800 6780	հե°09։ հե°08։ 32 հե°13։ 8&17 1հ հե°08։	48n 45n 45n	110°33; 110°44; 115W 110°40; 114W 116W 110°40;	1919 1919 1919 1919 1919 1919	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	MMMMMM
MADISON RIVER					- 01				Jackson Lake to Heise								
Norris Basin Thumb Divide SHOSHONE RIVER	10E2 15	7500 7900	րர <sub>0</sub> 55. የተ <sub>0</sub> ነጥ ፡		10°42' 10°35'	1936 1946	3,4 2,3,4,5	2,7 5	Afton Ranger Station Blackrock Bryan Flat	2 3	6200 8600 6250	30 4 9	32N 44N 38N	118W 111W 115W	1936 1936 1936	1,2,3,4,5 2,4 1,2,3,4,5	1 5 1
Sylvan Pass	10E5	7100	12	52N	110W	1936	1,2,3,4,5	2	CCC Camp Cottonwood Lake	<u>1</u>	7500 7500	9 25	29N 31N	118W	1936 1936	1,2,3,4,5	1
East Entrance TONGUE RIVER	10E6	7000	17	52N	109W	1948	1,2,3,4,5	2	Deadman Ranch Four Mile Meadows Oreys Boundary	6 8 9	6534 7770 5800	28 35 33	35N 45N 37N	116W 112W 118W	1936 1936 1936	1,2,3,4,5 2,4 1,2,3,4,5	1 5 1
Burgess R.S. Dome Lake Big Goose	7E4 7E5 7E2	7900 8800 7700	36 11 h	56n 53n 53n	89W 87W 86W	1950 1950 1935	3,4,5 3,4,5 4,5	և և 1	Grover Park Divide Teton Pass #2 Togwotee Pass Turpin Meadows	10 11 12 13	7500 8500 9600 6930	27 24 29 14	72N 77N 77N	118W 118W 110W 112W	1936 1936 1936 1936	1,2,3,4,5 1,2,3,4 2,3,4 2,4	1 5 5
POWDER RIVER									Yellowjacket Snow King Mountain	14 16	7675 7600	33 4	70M	112W	1936 19կ9	3,4,5 Semi.Mo.	1
Red Fork Sour Dough Soldier Park Muddy Pass	7F1 6E1 7E6 7E7	7000 8500 8700 9700	18 17 36 11	78n 73n 73n	85W 84W 85W 85W	1936 1936 1950 1950	և,5 և,5 3,և,5 3,և,5	և 1 և և	Heise to American Falls Bechler Ranger Station	. 2	6400	₽₽°09∗		111°03'	1936	1,2,3,4,5	2
North Powder	7E8	8500	5	47N	85W	1951	3,4,5	ĥ	Gressy Lake	8	7265	6	78M	117W	1940	1,2,3,4,5	5
SWEETWATER	201						**		BEAR RIVER								
Grannier Meadows Larsen Creek NORTH PLATTE	8G4 57	9000 9000	19 12	30N 30N	100W 103W	1937 1949	2,3,4,5 2,3,4,5	և,6 և	Big Park Kelly Ranger Station	85 86	8700 8200	7	27N 26N	117W 118W	1951 1951	3, h	Ħ Ħ
Bottle Creek Webber Spring Old Battle North French Creek North Barrett Creek #2 Ryan Park Zyan Park Zabring Creek Albany LaBonte Boxelder Pearl	7 8 9 37 38 39 67 68 69 70		27 29 27 30 34 32 18	14n 14n 14n 16n 16n 15n 14n 27n 30n 12n	85W 85W 85W 80W 81W 81W 78W 76W 75W 82W	1936 1936 1936 1938 1936 1936 1949 1949 1949 1950	2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5 2,3,4,5	1 1 1 1 1 1 1 1 1 1 1 1 1 1	2. U 3. U 4. S 5. U 6. S		est Services	rice ark Service a Service Reclamat	snow				nd May 1.

#### INDEX TO SOUTH DAKOTA SNOW COURSES

Name	South Dakota Number	Ele▼.	Lo Sec.	cation Twp.	Range	Record Began	Measuring Dates <sup>a</sup>	Measured By:
CHEYENNE RIVER								
Upper Spearfish Upper Castle Deerfield	1 2 3	6500 6800 6010	21 24 23	3N 2N 1N	1E 2E	1944 1944 1944	2,3,4 2,3,4 2,3,4	1 1 2

a. Numerals 2,3,4 refer to February 1, March 1, and April 1 respectively.

<sup>b. Numerals refer to Agency that secures the snow survey as follows:
1. U. S. Forest Service
2. U. S. Soil Conservation Service</sup> 



The data included in this report were obtained by the Soil Conservation Service in cooperation with the agencies named below:

#### STATE

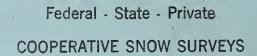
State Engineer of Wyoming State Engineer of Nebraska

#### FEDERAL

- U. S. Department of Agriculture Forest Service
- U. S. Department of Commerce Weather Bureau
- U. S. Department of the Interior Bureau of Reclamation National Park Service Geological Survey

#### PRIVATE

Wheatland Irrigation District



Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"